



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

DI TROLIO et al.

Atty. Ref.: 4324-2

Serial No. 10/700,374

TC/A.U.: 2862

Filed: November 4, 2003

Examiner:

For: AUTOMATIC PRECISION NON-CONTACT OPEN-LOOP FLUID  
DISPENSING

\* \* \* \* \*

April 13, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**

In accordance with Rule 97 and MPEP §609, the undersigned attorney submits the documents listed on the attached form PTO-1449. Applicants enclose a copy of each document that is not a U.S. patent.

The Examiner is requested to initial the attached form PTO-1449 and return a copy to the undersigned as an indication that the attached documents have been cited and considered in this case.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By:

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INFORMATION DISCLOSURE  
CITATION

ATTY. DOCKET NO.

4324-2

SERIAL NO.

10/700,374

APPLICANT

DI TROLIO et al.

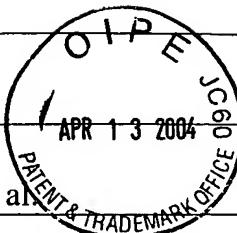
(Use several sheets if necessary)

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	FILING DATE		
				CLASS	SUBCLASS	IF APPROPRIATE
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Miller, K., "The Indispensable Dispenser: The Micropipetter," <u>The Scientist</u> 11[22]: 16 (11/10/1997)
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Brush, M., "Automated Liquid Handlers Advance," <u>The Scientist</u> 16[3]:38 (2/4/2002)
Web Site Information: <a href="http://www.biohit.com">www.biohit.com</a> , Liquid Handling, Biohit Proline Electronic Pipettors, Electronic Pipettors, eLine Electronic Pipettors, Specifications, Pipetting Controllers, Proline XL, Specifications, Midi Plus, Specifications
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		4324-2	10/700,374
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	Liquid Handling Application Notes: Ylatupa, S., "Pipetting performance. The critical factor for reliable analysis," WDETMT 1997/8
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	Max Memory Pipettor, "Built-in Memory Efficiently Repeats Your Volumes," Bel-Art, The Scienceware Company Mopet Portable Pipettors, The Fastest Portable Unit Available, Bel-Art, The Scienceware Company
	Web Site Information: <a href="http://www.drummondsci.com">www.drummondsci.com</a> , Drummond Scientific Company, Portable Pipet-Aid XP, Portable Pipet-Aid, Pipet-Aid Operation & Service, Nanoject II/Auto Nanoliter Injector, Pipet-Aid Hood Mate, Pipet-Aid, Tissue Culture Nosepiece, Pipet-Aid Dual Pump Filtration Unit, Positive Displacement Digital Microdispensers, Dialamatic Microdispensers, Fixed Volume Microdispensers, Sequencing Pipet, Nanoject II Auto-Nanoliter Injector, Oocyte Microinjection Pipet, Nanoject II Support Accessories, PCR Pipets, Pipet-Aid Pipet forms, Calibrated Micropipets, "Sample delivery, sample retrieval, sample transfer, sample inoculation...",
	BD Falcon Pipets and Pipet-Aids, Accuracy at Your Fingertips, BD Biosciences

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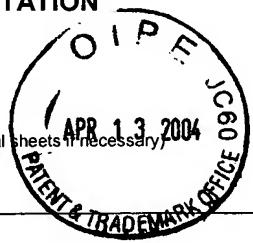
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4324-2	10/700,374
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	5,133,218	07/1992	Uffenheimer, et al.			
	5,143,849	09/1992	Barry, et al.			
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	5,156,811	10/1992	White			
	5,158,748	10/1992	Obi, et al.			
	5,171,537	12/1992	Wainwright, et al.			
	5,173,265	12/1992	Golias, et al.			
	5,173,266	12/1992	Kenney			
	5,183,765	02/1993	Qureshi, et al.			
	5,191,801	03/1993	Allen, et al.			
	5,192,511	03/1993	Roach			
	5,195,657	03/1993	Wells			
	5,198,193	03/1993	Bunce, et al.			
	5,200,151	04/1993	Long			
	5,204,268	04/1993	Matsumoto			
	5,215,131	06/1993	Poy			
	5,223,225	06/1993	Gautsch			
	5,232,664	08/1993	Krawzak, et al.			
	5,232,669	08/1993	Pardinas			
	5,238,654	08/1993	Nohl, et al.			
	5,248,480	09/1993	Greenfield, et al.			
	5,249,711	10/1993	Filbert, Jr.			
	5,259,956	11/1993	Mercer, et al.			
	5,260,030	11/1993	DeVaughn			
	5,262,049	11/1993	Ferkany			
	5,270,219	12/1993	DeCastro, et al.			
	5,272,926	12/1993	Wilkins			
	5,273,717	12/1993	Marvin			
	5,275,951	01/1994	Chow, et al.			
	5,279,791	01/1994	Aldrich, et al.			
	5,304,347	04/1994	Mann, et al.			
	5,306,510	04/1994	Meltzer			
	5,308,583	05/1994	Sanuki			
	5,309,959	05/1994	Shaw, et al.			
	5,312,757	05/1994	Matsuyama, et al.			
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	5,324,480	06/1994	Shumate, et al.			
	5,330,717	07/1994	Berteloot, et al.			
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	5,334,353	08/1994	Blattner			
	5,342,190	08/1994	Salter			
	5,343,909	09/1994	Goodman			
	5,348,606	09/1994	Hanaway, et al.			
	5,348,705	09/1994	Koreyasu, et al.			
	5,354,538	10/1994	Bunce, et al.			
	5,363,885	11/1994	McConnell, et al.			
	5,364,596	11/1994	Magnussen, Jr., et al.			
	5,364,598	11/1994	Oxley			
	5,365,798	11/1994	Kressirer			
	5,366,904	11/1994	Qureshi, et al.			
	5,370,842	12/1994	Miyazaki, et al.			
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	5,384,093	01/1995	Ootani, et al.			
	5,389,341	02/1995	Tuunanen, et al.			
	5,405,585	04/1995	Coassin			
	5,406,856	04/1995	Kuhn			
	5,439,649	08/1995	Tseung, et al.			
	5,440,940	08/1995	Wilkins			
	5,443,792	08/1995	Buhler			
	5,445,797	08/1995	Flesher			
	5,447,691	09/1995	Sanuki			
	5,449,494	09/1995	Seeney			
	5,452,619	09/1995	Kawanabe, et al.			
	5,453,246	09/1995	Nakayama, et al.			
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	5,465,629	11/1995	Waylett, Jr.			
	5,474,744	12/1995	Lerch			
	5,479,969	01/1996	Hardie, et al.			
	5,486,478	01/1996	Kuriyama			
	5,509,318	04/1996	Gomes			
	5,510,083	04/1996	Sack, et al.			
	5,518,686	05/1996	Masterson, et al.			
	5,525,298	06/1996	Anami			
	5,525,302	06/1996	Astle			
	5,525,515	06/1996	Blattner			
	5,531,131	07/1996	Sabloeowski			
	5,537,880	07/1996	Takeda, et al.			
	5,540,888	07/1996	Bunce, et al.			
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	5,544,535	08/1996	Thomas			
	5,550,059	08/1996	Boger, et al.			
	5,551,487	09/1996	Gordon, et al.			
	5,558,838	09/1996	Uffenheimer			
	5,571,480	11/1996	Baccanti, et al.			
	5,573,729	11/1996	Belgardt, et al.			
	5,578,268	11/1996	Champseix, et al.			
	5,582,798	12/1996	Meltzer			
	5,585,069	12/1996	Zanzucchi, et al.			
	5,591,408	01/1997	Belgardt, et al.			
	5,593,893	01/1997	Kobashi, et al.			
	5,597,733	01/1997	Bell, et al.			
	5,599,500	02/1997	Jones			
	5,620,660	04/1997	Belgardt, et al.			
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	5,624,059	04/1997	Lo			
	5,624,849	04/1997	Thomas, et al.			
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	5,629,209	05/1997	Braun, Sr., et al.			
	5,639,425	06/1997	Komiyama, et al.			
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	5,654,200	08/1997	Copeland, et al.			
	5,665,601	09/1997	Kilmer			
	5,672,320	09/1997	Ritter			
	5,681,437	10/1997	Black, et al.			
	5,683,915	11/1997	Black, et al.			
	5,700,695	12/1997	Yassinzadeh, et al.			
	5,705,750	01/1998	Mizukami, et al.			
	5,736,105	04/1998	Astle			
	5,744,099	04/1998	Chase, et al.			
	5,747,350	05/1998	Sattler			
	5,747,709	05/1998	Oshikubo			
	5,750,881	05/1998	Dorenkott, et al.			
	5,753,514	05/1998	Karlsson, et al.			
	5,756,050	05/1998	Ershow, et al.			
	5,759,847	06/1998	Eden, et al.			
	5,763,278	06/1998	Sickinger, et al.			
	5,770,151	06/1998	Roach, et al.			
	5,770,159	06/1998	Marteau D'Autry			
	5,770,160	06/1998	Smith, et al.			
	5,772,966	06/1998	Maracas, et al.			
	5,773,298	06/1998	Lynggaard, et al.			
	5,775,546	07/1998	Buehler			
	5,783,155	07/1998	Greenler, et al.			
	5,783,446	07/1998	Saul, et al.			
	5,783,451	07/1998	Van Praet			
	5,785,926	07/1998	Seubert, et al.			
	5,792,424	08/1998	Homberg, et al.			
	5,801,062	09/1998	Sarstedt, et al.			
	5,804,144	09/1998	Tervamaki			
	5,811,306	09/1998	Komatsu			
	5,817,955	10/1998	Gherson, et al.			
	5,827,744	10/1998	Fose, et al.			
	5,834,314	11/1998	Gates, et al.			
	5,836,360	11/1998	Gavin, et al.			
	5,843,378	12/1998	El-Hage, et al.			
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	5,849,248	12/1998	Homberg			
	5,849,598	12/1998	Wilson, et al.			

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	5,853,670	12/1998	Bunce			
	5,855,851	01/1999	Matsubara, et al.			
	5,861,317	01/1999	Tanihata			
	5,871,699	02/1999	Ruggeri			
	5,874,296	02/1999	Kang			
	5,876,675	03/1999	Kennedy			
	5,879,627	03/1999	Tanihata			
	5,879,632	03/1999	Demers			
	5,879,633	03/1999	Tervamaki, et al.			
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	5,895,631	04/1999	Tajima			
	5,895,761	04/1999	Jacobs			
	5,895,762	04/1999	Greenfield, et al.			
	5,897,034	04/1999	Sewell			
	5,897,837	04/1999	Mizuno			
	5,906,795	05/1999	Nakashima, et al.			
	5,915,282	06/1999	Merriam, et al.			
	5,916,524	06/1999	Tisone			
	5,919,356	07/1999	Hood			
	5,919,706	07/1999	Tajima			
	5,925,834	07/1999	Sgourakes			
	5,927,547	07/1999	Papen, et al.			
	5,932,987	08/1999	McLoughlin			
	5,939,330	08/1999	Peterson			
	5,942,441	08/1999	Nylen			
	5,945,611	08/1999	Welker			
	5,947,167	09/1999	Bogen, et al.			
	5,948,359	09/1999	Kalra, et al.			
	5,951,950	09/1999	Fukuoka, et al.			
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	5,958,342	09/1999	Gamble, et al.			
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	5,961,927	10/1999	Isaacs, et al.			
	5,962,329	10/1999	Ershov, et al.			
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	5,993,744	11/1999	Rao, et al.			
	5,997,819	12/1999	Mougin, et al.			
	5,998,214	12/1999	Guirguis			
	5,998,218	12/1999	Conley, et al.			
	6,001,309	12/1999	Gamble, et al.			
	6,003,388	12/1999	Oeftering			
	6,006,800	12/1999	Nakano			
	6,007,776	12/1999	Matsumoto			
	6,021,680	02/2000	Inagaki, et al.			
	6,042,709	03/2000	Parce, et al.			
	6,045,757	04/2000	Moriarty, et al.			
	6,045,759	04/2000	Ford, et al.			
	6,048,498	04/2000	Kennedy			
	6,051,190	04/2000	Birch, et al.			
	6,054,325	04/2000	Kedar, et al.			
	6,060,024	05/2000	Hutchins, et al.			
	6,060,320	05/2000	Dorenkott, et al.			
	6,063,339	05/2000	Tisone, et al.			
	6,063,634	05/2000	Chomka, et al.			
	6,063,635	05/2000	Ohta, et al.			
	6,066,297	05/2000	Torti, et al.			
	6,073,498	06/2000	Taylor, et al.			
	6,074,611	06/2000	Flesher			
	6,079,283	06/2000	Papen, et al.			
	6,083,762	07/2000	Papen, et al.			
	6,085,944	07/2000	Lang, et al.			
	6,100,094	08/2000	Tajima			
	6,105,636	08/2000	Scatizzi, et al.			
	6,110,427	08/2000	Uffenheimer			
	6,117,396	09/2000	Demers			
	6,121,049	09/2000	Dorenkott, et al.			
	6,123,905	09/2000	Torti, et al.			
	6,135,325	10/2000	Fessel, et al.			
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	6,158,269	12/2000	Dorenkott, et al.			
	6,158,292	12/2000	Gilson, et al.			
	6,168,761	01/2001	Kelly, et al.			
	6,171,553	01/2001	Petrek			
	6,199,605	03/2001	Inaba, et al.			
	6,200,814	03/2001	Malmqvist, et al.			
	6,203,759	03/2001	Pelc, et al.			
	6,218,193	04/2001	Kraft, et al.			
	6,232,129	05/2001	Wiktor			
	6,234,033	05/2001	Eipl			
	6,235,175	05/2001	Dubrow, et al			
	6,235,244	05/2001	Allen et al.			
	6,238,626	05/2001	Higuchi, et al.			
	6,241,950	06/2001	Veelenturf, et al.			
	6,244,119	06/2001	Theran			
	6,245,297	06/2001	Kowallis			
	6,248,295	06/2001	Petrek			
	6,250,130	06/2001	Howard, et al.			
	6,251,343	06/2001	Dubrow, et al.			
	6,254,832	07/2001	Rainin, et al.			
	6,258,324	07/2001	Yiu			
	6,267,927	07/2001	Pomar Longedo, et al.			
	6,268,219	07/2001	Mcbride, et al.			
	6,269,846	08/2001	Overbeck, et al.			
	6,271,043	08/2001	Godec, et al.			
	6,280,689	08/2001	Stevens			
	6,284,113	09/2001	Bjornson, et al.			
	6,287,520	09/2001	Parce, et al.			
	6,296,811	10/2001	Sasaki			
	6,299,841	10/2001	Rainin, et al.			
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	6,319,718	11/2001	Matsubara, et al.			
	6,322,752	11/2001	Siddiqui, et al.			
	6,325,114	12/2001	Bevirt, et al.			
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	6,335,204	01/2002	Kuo			
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	6,355,487	03/2002	Kowallis			
	6,358,471	03/2002	Ishihara			
	6,365,110	04/2002	Rainin, et al.			
	6,372,185	04/2002	Shumate, et al.			
	6,379,624	04/2002	Lange			
	6,379,974	04/2002	Parce, et al.			
	6,387,330	05/2002	Bova, et al.			
	6,394,759	05/2002	Parce			
	6,395,231	05/2002	Kraemer, et al.			
	6,395,232	05/2002	McBride			
	6,395,559	05/2002	Swenson			
	6,399,024	06/2002	Bevirt, et al.			
	6,399,395	06/2002	Zengerle, et al.			
	6,399,396	06/2002	Bass			
	6,405,609	06/2002	Richards, et al.			
	6,406,605	06/2002	Moles			
	6,413,475	07/2002	Ishizawa, et al.			
	6,416,642	07/2002	Alajoki, et al.			
	6,416,713	07/2002	Ford, et al.			
	6,420,186	07/2002	Berger, et al.			
	6,428,668	08/2002	Ansorge, et al.			
	6,428,750	08/2002	Rainin, et al.			
	6,431,015	08/2002	Hodac, et al.			
	6,432,365	08/2002	Levin, et al.			
	6,432,719	08/2002	Vann, et al.			
	6,440,370	08/2002	Blum, et al.			
	6,444,173	09/2002	Sjursen, et al.			
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	6,448,090	09/2002	McBride			
	6,451,263	09/2002	Sarrine			
	6,454,924	09/2002	Jedrzejewski, et al.			
	6,455,006	09/2002	Mukai			
	6,455,325	09/2002	Tajima			
	6,457,612	10/2002	Zhang, et al.			
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	6,474,180	11/2002	Bigus			
	6,475,440	11/2002	Bochkariov			
	6,482,362	11/2002	Smith			
	6,482,364	11/2002	Parce, et al.			
	6,485,690	11/2002	Pfost, et al.			
	6,488,894	12/2002	Miethe, et al.			
	6,488,895	12/2002	Kennedy			
	6,488,897	12/2002	Dubrow, et al.			
	6,489,171	12/2002	Aghassi, et al.			
	6,492,184	12/2002	Petro, et al.			
	6,495,104	12/2002	Unno, et al.			
	6,495,106	12/2002	Kalra, et al.			
	6,495,369	12/2002	Kercso, et al.			
	6,499,365	12/2002	Baumgartner			
	6,500,323	12/2002	Chow, et al.			
	6,502,470	01/2003	Taylor, et al.			
	6,503,454	01/2003	Hadimioglu, et al			
	6,509,193	01/2003	Tajima			
	6,510,736	01/2003	Van Ee			
	6,514,466	01/2003	Labriola, et al.			
	6,521,187	02/2003	Papen			
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	6,524,456	02/2003	Ramsey, et al.			
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	D242,729	12/1976	Kenney			
	D250,599	12/1978	St. Amand			
	RE31,555	04/1984	Garren, et al.			
	RE37,734	06/2002	Buehler			

*Examiner		Date Considered	
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Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.